# PREHOSPITAL and DISASTER MEDICINE

Volume 39, Number 3

**June 2024** 





The Official Journal of the World Association for Disaster and Emergency Medicine

## Cambridge Core

Access leading journals in your subject

Explore today at cambridge.org/core

Cambridge Core



## Table of Contents

GUEST EDITORIAL
Integrating Disaster and Dignitary Medicine Principles into a Medical Framework for Organizational Travel Health and Security Planning
Derrick Tin, MD; Fredrik Granholm, MD; Michael Guirguis, MD; Mobarak Almulhim, MD; Gregory Ciottone, MD
ORIGINAL RESEARCH
DIASTER HEALTH AND MEDICINE After the Türkiye Earthquake: The Experience of a Pediatric Emergency Department in a University Hospital Distant from the Disaster Area
Burcu Akbaba, MD; Hande Yiğit, MD; Emre Güngör, MD; Mustafa O. Kaynak, MD; Hafize H. Kahya, MD; Ahmet Z. Birbilen, MD; Selman Kesici, MD; Ali Düzova, MD; Benan Bayrakçı, MD; Özlem Tekşam, MD
PREHOSPITAL CARE The Impact of Alcohol-Related Presentations to Emergency Departments on Days with a Public Holiday
or Sporting Event: A Retrospective Cohort Study
Brain Injury Associated Shock: An Under-Recognized and Challenging Prehospital Phenomenon
A Pilot Randomized Controlled Trial of Augmented Reality Just-in-Time Guidance for the Performance of Rugged Field Procedures
RESEARCH REPORTS  Ambulance Transports from NCAA Division 1 Football Games. 26  Aditya C. Shekhar; Abel Alexander; Michael Simms; Mehek Jahan; Anna Haugen; Michelle Lu; Robert Ball; Jeffrey Clement
Impact of Collegiate Football Games on Emergency Response Intervals: A Case Study of College Station, Texas (USA)
FIELD REPORT Prehospital Care Under Fire: Strategies for Evacuating Victims from the Mega Terrorist Attack in Israel on October 7, 2023
CORRIGENDUM Early Vital Sign Thresholds Associated with 24-Hour Mortality among Trauma Patients: A Trauma Quality Improvement Program (TQIP) Study – CORRIGENDUM
MD; Steven G. Schauer, DO, MS  Bleeding Control Protections Within US Good Samaritan Laws – CORRIGENDUM

## EDITORIAL BOARD Prehospital and Disaster Medicine

#### **EDITOR-IN-CHIEF** Samuel J. Stratton, MD, MPH

University of California-Los Angeles Los Angeles, California, USA

#### **EMERITUS EDITOR-IN-CHIEF**

Marvin L. Birnbaum, MD, PhD University of Wisconsin-Madison Madison, Wisconsin, USA

#### **DEPUTY EDITOR** Jeffrey M. Franc, MD, MS(Stat),

MSc, FCRP (EM), DSportMed University of Alberta, Alberta, Canada

#### **MANAGING EDITOR** Ellen Johnson, MS

#### **SECTION EDITORS**

Emergency Medical Services

#### Darren Walter, FRCS(Ed) FCEM, FIMC

University Hospital South Manchester Manchester, UK

#### Mass Gathering Medicine Paul Arbon, PhD

School of Nursing and Midwifery Flinders University Adelaide, South Australia Nursing

#### Elaine Daily, RN, BSN, FCCM, FAHA

Madison, Wisconsin, USA

#### ASSOCIATE EDITORS David A. Bradt, MD, MPH

Royal Melbourne Hospital Melbourne, Australia

#### Kimball Maull, MD, FACS

Department of Surgery Hamad General Hospital Doha, Qatar

#### Steven Rottman, MD

University of California-Los Angeles Los Angeles, California, USA

#### Geert Synaeve, MD

Brussels, Belgium

#### EDITORIAL BOARD Bruria Adini, PhD

Sackler Faculty of Medicine Tel Aviv University Tel Aviv, Israel

#### Carol Amaratunga, PhD

School of Child and Youth Development University of Victoria Research Association of the Justice Institute of British Columbia

#### Victoria, British Columbia, Canada Yaron Bar-Dayan, MD, MHA

Israeli Defense Forces Home Front Command Or-Yehuda, Israel

#### Sue Anne Bell, PhD, FNP-BC

School of Nursing University of Michigan Ann Arbor, Michigan, USA

#### Tareg Bey, MD

The University of Texas MD Anderson Cancer Center Houston, Texas, USA

#### Joost Bierens, MD, PhD

Amsterdam, The Netherlands

#### Richard A. Bissell, PhD

Center for Emergency Education and Disaster Research University of Maryland-Baltimore Baltimore, Maryland, USA

#### Stuart A. Bradin, DO, FAAP, **FACEP**

University of Michigan/Michigan Medicine Ann Arbor, Michigan, USA

#### Felipe Cruz-Vega, MD

Office of Social Security Mexico City, Mexico

### Joe Cuthbertson, MPH, MSc,

Disaster Resilience Initiative Monash University Australia

#### Robert A. DeLorenzo, MD, MSM, FACEP

Medical Corps United States Army San Antonio, Texas, USA

#### Romeo R. Fairley, MD

University of Texas Health San Antonio, Texas, USA

#### R. Paul Farrell, CD, MB, BCH, BAO, DA, LMCC

Kamloops, British Columbia, Canada

#### Erik S. Gaull

George Washington University Washington, DC, USA

#### Michael Gunderson

Center for Systems Improvement Lakeland, Florida, USA

#### Pinchas Halpern, MD

Critical Care and Emergency Medicine Tel Aviv University Tel Aviv, Israel

#### Keith Holtermann, MD

George Washington University Washington, DC, USA

#### Mark Keim, MD

Centers for Disease Control and Prevention Atlanta, Georgia, USA

#### Todd J. LeDuc, EMT-P

Broward Sheriff Fire Rescue Ft. Lauderdale, Florida, USA

#### Lidia Mayner, PhD

School of Nursing and Midwifery Flinders University Adelaide, South Australia

#### Andrew Milsten, MD, MS, **FACEP**

University of Massachusetts Emergency Medicine Worcester, Massachusetts, USA

#### Jerry Overton

IAED Emergency Clinical Advice System & Standards Board Salt Lake City, Utah, USA

#### Lynda Redwood-Campbell, MD, MPH

Department of Family Medicine McMaster University Hamilton, Ontario, Canada

#### Edward Ricci, PhD

Behavioral and Community Health Sciences University of Pittsburgh Pittsburgh, Pennsylvania, USA

#### Leonid Roshal, MD

Institute of Pediatrics Academy of Medical Sciences Moscow, Russia

#### Don Schramm

Disaster Management Center University of Wisconsin-Madison Madison, Wisconsin, USA

#### Carl Schultz, MD, FACEP

Center for Disaster Medical Sciences University of California, Irvine Irvine, California, USA

#### Erin Smith, PhD, MPH, **MClinEpi**

DART Centre Asia Pacific C/O Phoenix Australia Centre for Posttraumatic Mental Health Carlton, Victoria, Australia

#### Wayne Smith, BSC, MBChB, EMDM, FCEM(SA)

Division of Emergency Medicine University of Cape Town Cape Town, South Africa

#### Knut Ole Sundnes, MD

Baerum Hospital Solo, Norway

#### Angelika T. Underwood, PA-C, **MScDM**

Bassett Healthcare Cooperstown, New York, USA

#### Darren Walter, MB, ChB, MPH

International Emergency Medicine, University of Manchester, UK

#### Richard Zoraster, MD, MPH

Kaneohe, Hawaii, USA

#### **Editorial Office**

World Association for Disaster and Emergency Medicine, 3330 University Avenue, Suite 130, Madison, WI 53705 USA Telephone: (+1) (608) 819-6604; Facsimile (+1) (608) 819-6055; E-mail: pdm@wadem.org

> Editor-in-Chief Samuel J. Stratton, MD, MPH

> > Managing Editor Ellen Johnson, MS

Editorial Assistant Kelly Hutchinson, ND

**Publishing and Production Office** 

Cambridge University Press One Liberty Plaza New York, NY 10006 USA

Advertising Sales

M. J. Mrvica Associates, Inc. 2 West Taunton Avenue Berlin, NJ 08009 (856) 768-9360 mjmrvica@mrvica.com

Copyright © 2024 by the World Association for Disaster and Emergency Medicine. All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying, or otherwise, without permission in writing from Cambridge University Press. Policies, request forms, and contacts are available at: http://www.cambridge.org/rights/permissions/permission.htm.

Printed by Sheridan, a CJK Group Company. Printed in United States of America on acid-free paper.

POSTMASTER: Send address changes in the USA, Canada, and Mexico to *Prehospital and Disaster Medicine*, Cambridge University Press, Journals Fulfillment Department, One Liberty Plaza, 20th floor, New York, NY 10006. Send address changes elsewhere to Prehospital and Disaster Medicine, Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, England.

Prehospital and Disaster Medicine (Print ISSN 1049-023X; Electronic ISSN 1945-1938) is published bimonthly in the months of February, April, June, August, October, and December for the World Association for Disaster and Emergency Medicine. by Cambridge University Press, One Liberty Plaza, 20th floor, New York, NY 10006. Periodicals postage rate paid at New York, NY, and at additional mailing offices. PDM incorporates the Journal of the World Association for Emergency and Disaster Medicine and the Journal of Prehospital Medicine.

Aims and Scope: The principal mission of Prehospital and Disaster Medicine is the distribution of information relevant to the practice of out-of-hospital and in-hospital emergency medical care, disaster medicine, emergency public health and safety, and disaster mental health and psychosocial support.

Submissions: All manuscripts must be submitted through the Journal's online submission platform, ScholarOne Manuscripts, at http://mc.manuscriptcentral.com/pdm. Please review the Author Instructions and Author Checklist available online before finalizing a submission. All studies that include human subjects must be submitted for review or exemption to a formal human subjects ethics committee.

2024 Subscription Information: Institutions print and electronic: US\$996.00 in the USA, Canada, and Mexico; UK£608.00+VAT elsewhere. Institutions electronic only: US\$712.00 in the USA, Canada, and Mexico; UK£437.00+VAT elsewhere. Individuals print and electronic: US£291.00 in the USA, Canada, and Mexico; UK£178.00+VAT elsewhere. Individuals electronic only: US\$205.00 in the USA, Canada, and Mexico; UK£118.00+VAT elsewhere. Single Part: US\$191.00 in the USA, Canada, and Mexico; UK£117.00+VAT elsewhere. Prices include postage and insurance. Airmail or registered mail is extra. Back volume prices are available upon request. Claims of non-receipt or damaged issues must be filed within three months of cover date.

Indexing: PDM is covered by Clarivate Analytics services and indexed and abstracted in the Science Citation Index (also known as SciSearch®) and the Journal Citation Reports/Science Edition. PDM is comprehensively indexed by the US National Library of Medicine (MEDLINE), Scopus®, Cumulative Index to Nursing and Allied Health (CINAHL), and Health Star Cumulative Index. Abstracts and search capability available at https://www.cambridge.org/core/journals/prehospital-and-disaster-medicine.

Statement of Peer Review Policy: PDM is a signatory with the International Committee of Medical Journal Editors (ICMJE) and the Committee On Publication Ethics (COPE). All scientific papers published in PDM are submitted to subject content and methods experts for peer review. Authors and reviewers are blinded (not aware of the identity of each other). Peer reviewers must declare that there is not a conflict of interest with any manuscript they agree to review. Peer review is accomplished by means of a standard scoring system and specific comments, the results and contents of which are returned to authors for their review.